(e) complementary to the nucleotide sequence of any of (a) - (d).

2. (Amended Twice) An isolated nucleic acid molecule comprising:

(a) a nucleotide sequence encoding a polypeptide which is at least about 70 percent identical to the polypeptide as set forth in SEQ ID NO: 5, wherein the encoded polypeptide, upon exposure to mammalian cells, causes an increase in cellular protein tyrosine phosphorylation;

(b) a nucleotide sequence encoding an allelic variant of the nucleotide sequence as set forth in SEQ ID NO: 4, the nucleotide sequence of the DNA insert in ATCC Deposit No. PTA-976, or the nucleotide sequence of (a);

(c) a region of the nucleotide sequence of SEQ ID NO: 4, the DNA insert in ATCC Deposit No. PTA-976, or the nucleotide sequence of (a) or (b) encoding a polypeptide fragment of at least about 25 amino acid residues, wherein the polypeptide fragment, upon exposure to mammalian cells, causes an increase in cellular protein tyrosine phosphorylation, or is antigenic;

(d) a region of the nucleotide sequence of SEQ ID NO: 4, the nucleotide sequence of the DNA insert in ATCC Deposit No. PTA-976, or the nucleotide sequence of any of (a) - (c) comprising a fragment of at least about 16 nucleotides;

(e) a nucleotide sequence that hybridizes to the complement of the nucleotide sequence of any of (a) - (d) under hybridization conditions allowing no more than a 21% mismatch between the nucleotide sequences; or

(f) a nucleotide sequence complementary to the nucleotide sequence of any of (a) - (e).

3. (Amended Twice) An isolated nucleic acid molecule comprising a nucleotide sequence:

(a) encoding a polypeptide as set forth in SEQ ID NO: 5 with at least one conservative amino acid substitution, wherein the encoded polypeptide, upon exposure to mammalian cells, causes an increase in cellular protein tyrosine phosphorylation;

(b) encoding a polypeptide as set forth in SEQ ID NO: 5 with at least one amino acid insertion, wherein the encoded polypeptide, upon exposure to mammalian cells, causes an increase in cellular protein tyrosine phosphorylation;

McDonnell Boehnen Hulbert & Berghoff
300 South Wacker Drive
Chicago, Illinois 60606
(312) 913-0001